



Waste Management, Inc.
3053 Eastfield Road • Oak Brook, Illinois 60521

June 29, 1982



Ms. Mary Janet Roe
Solid Waste Management Section
Division of Land Pollution Control
Indiana State Board of Health
1330 W. Michigan Street
Indianapolis, IN 46204

RE: Disposal of Central Waste Treatment Sludge from Jones & Laughlin
Steel Corp., East Chicago, Indiana at Wheeler Landfill

Dear Mary Janet,

This is a request for approval to dispose of approximately 235 cubic yards per week of central waste treatment sludge from Jones & Laughlin Steel. We would like to dispose of the material by incorporating it into the daily receipts at Wheeler Landfill.

Attached is a Special Waste Analysis Report for the material to be disposed. The waste is a solid to semi-solid iron hydroxide sludge which is centrifuged from clarifier bottoms at Jones & Laughlin's central waste water treatment plant. Lime is used to precipitate the metals in this process.

Thank you for your consideration of this request. If you need any additional information, please feel free to call me at (312) 654-8800.

Very truly yours,

William R. Schubert
District Engineer
Midwest Region

WRS:mss

Attachment

cc: Chuck Grigalski
Dan Nelson
Bill Rauch
Jerry Wise

bcc: ~~Chuck Grigalski~~

SPECIAL WASTE ANALYSIS REPORT

LABORATORY: Chemical Waste Management

Technical Center

SALES

CODE

CAZ

A43295

WASTE PROFILE SHEET CODE

PROFILE SHEET RECEIVED ON: 4/21/82

REPRESENTATIVE SAMPLE RECEIVED ON: 4/21/82

CERTIFICATE OF REP. SAMPLE RECEIVED: 4/21/82

SAMPLE TAKEN: 3/22/82

PROPOSED TREATMENT/DISPOSAL FACILITY: CID / Wiscasset

THE ANALYSES BELOW REPORTED WERE SELECTED BY ME, BASED UPON THE GENERATOR'S REPRESENTATIONS IN THE PROFILE SHEET AND ANY APPLICABLE WASTE ANALYSIS PLAN ESTABLISHED BY THE PROPOSED FACILITY FOR WASTE OF THIS TYPE. ANALYSES REQUIRED BY A WASTE ANALYSIS PLAN ARE INDICATED BY AN ASTERISK (*).

DATE OF ANALYSIS: 5-13-82

LAB MANAGER: James W. Kasper

10774

Jones & Langbein Steel Corp.

Cutting Fluid

Test	As Received	Leachate	SP. TOXICITY	Test	As Received	Leachate	Anal. Inc.
Specific Gravity							
pH	<u>10% solution 8.1</u>						
Acidity, % as							
Alkalinity, % as				Phenols, mg/l	<u>510</u>		
C O D, mg/l				Cyanides, as CN, Total, mg/l	<u>610</u>		
B O D, mg/l				Cyanides, as CN, Free, mg/l			
Total Solids @ 105°C	<u>33.60%</u>			Nitrogen, Ammonia, as N, mg/l			
Total Dissolved Solids, mg/l				Nitrogen, Organic, as N, mg/l			
Total Suspended Solids	<u>33.60%</u>			Total Kjeldahl Nitrogen, as N, mg/l			
Residue on Evaporation @ 180°C							
Flash Point, F°	<u>>212</u>			Total Alkalinity (P), as CaCO ₃ , mg/l			
Ash Content, on ignition	<u>23.35%</u>			Total Alkalinity (M), as CaCO ₃ , mg/l			
Heating Value, BTU/lb				Total Hardness, as CaCO ₃ , mg/l			
"Acid Scrub," gNaOH/g				Calcium Hardness, as CaCO ₃ , mg/l			
				Magnesium Hardness, as CaCO ₃ , mg/l			
Arsenic, as AS, mg/l	<u>0.30</u>		<u>≤0.04*</u>				
Barium, as Ba, mg/l	<u>411</u>		<u>≤5.63*</u>				
Boron, as B, mg/l				Oil and Grease, mg/l			
Cadmium, as Cd, mg/l	<u>8.30</u>		<u>≤0.45*</u>				
Chromium, Total as Cr, mg/l	<u>3050</u>	<u>0.18</u>	<u>≤0.01</u>	Aldrin, mg/l			
Hexavalent Chromium @ Cr, mg/l				Chlordane, mg/l			
Copper, as Cu, mg/l	<u>63.5</u>			DDTs, mg/l			
Iron, Total as Fe, mg/l				Dieldrin, mg/l			
Iron, dissolved, as Fe, mg/l				Endrin, mg/l			
Lead, as Pb, mg/l	<u>97.1</u>		<u>0.03</u>	Heptachlor, mg/l			
Manganese, as Mn, mg/l				Lindane, mg/l			
Magnesium, as Mg, mg/l				Methoxychlor, mg/l			
Mercury, as Hg, mg/l	<u>0.005</u>		<u>≤0.005*</u>	Toxaphene, mg/l			
Nickel, as Ni, mg/l	<u>85.6</u>			Parathion, mg/l			
Selenium, as Se, mg/l	<u>0.10</u>		<u>≤0.01*</u>	2,4, D, mg/l			
Silver, as Ag, mg/l	<u>1.73</u>		<u>≤0.25*</u>	2,4,5, TP (Silver), mg/l			
Zinc, as Zn, mg/l	<u>56.3</u>			PCB's, mg/l			
Bicarbonates, as HCO ₃ , mg/l							
Carbonates, as CO ₃ , mg/l							
Chlorides, as Cl, mg/l							
Fluorides, as F, mg/l							
Nitrates, as NO ₃ , mg/l							
Nitrites, as NO ₂ , mg/l							
Phosphates, as P, mg/l							
Sulfates, as SO ₄ , mg/l							
Sulfides, as S, mg/l	<u>410.0</u>						

* Not tested, the results reported are the maximum possible F D Toulson

This report has been prepared for the exclusive use and be of Chemical Waste Management .. No represent